



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

649.5110

Job Sheet 192695



Part No: 649.5110

Job Qty: 4 pcs

Part Name: Wiper Deflector



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 3/29/19

Job Tracking No:

Due Date: 5/3/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG 649.5100 REV.D SHEETS 1,3 IPP REV A NEW ISSUE R.Q. 13/10/03 VERIFIED BY: J.F.S. IPP REV:B
18.03.28 AS PER DWG REV.D DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs	Run Hrs	Workcenter/Supplier	Lead Time	Sign-off
100	Bandsaw - 1	4 pcs	5/3/19	5/3/19	0.00	2.04	Bandsaw - 1	DAS 52 19/04/15	
110	HAAS 4 Axis - B4B	4 pcs	5/3/19	5/3/19	0.00	2.04	HAAS - 1 - B4B	52 9-89	17/04/15
							HAAS - 2 - B4B	9-89	
							HAAS - 3 - B4B		
							HAAS - 4 - B4B		
120	QC 2	4 pcs	5/3/19	5/3/19	0.00	0.00	QC 2 - 1		
							QC 2 - 12		
							QC 2 - 14		
							QC 2 - 17		
							QC 2 - 19		
							QC 2 - 2		
							QC 2 - 20		
							QC 2 - 22		
							QC 2 - 23		
							QC 2 - 25		
							QC 2 - 32		
							QC 2 - 33		
							QC 2 - 35		
							QC 2 - 39		
							QC 2 - 4		
							QC 2 - 40		
							QC 2 - 44		
							QC 2 - 45		
							QC 2 - 48		
							QC 2 - 49		
							QC 2 - 50		
							QC 2 - 51	DAS 52 17/04/15	
							QC 2 - 52	9-89	
							QC 2 - 56		
							QC 2 - 57		



Container No: S172580



Part: 649.5110

Job No: 192695

Serial No/Batch: S172580

Revision: D

Inspector:

Exp Date:

Instructions:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 813 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 04/15/19

Plex 4/1/19 7:51 AM Dart.lajeunesse.marie

					QC 2 - 62	
					QC 2 - 63	
					QC 2 - 8	
					QC 2 - 66	
					QC 2 - 64	
					QC 2 - 65	
					QC 2 - 5	
130	QC 8	4 pcs	5/3/19	0.00 0.00	QC 8 - 12	
					QC 8 - 14	
					QC 8 - 17	
					QC 8 - 20	
					QC 8 - 25	
					QC 8 - 3	
					QC 8 - 32	
					QC 8 - 33	
					QC 8 - 35	
					QC 8 - 39	
					QC 8 - 4	
					QC 8 - 44	
					QC 8 - 45	
					QC 8 - 49	
					QC 8 - 58	
					QC 8 - 8	
					QC 8 - 9	
					QC 8 - 68	
					QC 8 - 67	
					QC 8 - 1 (A)	Kt 19-04-16
					QC 8 - 47	
					QC 8 - 40	
					QC 8 - 52	
					QC 8 - 23	
140	Outsource - 4 - Anodize	4 pcs	5/3/19		ATG001-VC	8 04/24/2019 PL
150	Packaging 2-1 - Receive - B4B	4 pcs	5/3/19	0.00 0.00	Packaging 2 - 1 - B4B	
					Packaging 2 - 2 - B4B	
					Packaging 2 - 3 - B4B	
					Packaging 2 - 5 - B4B	
					Packaging 2 - 4 - B4B	
					Packaging 2 - 6 - B4B	
					Packaging 2 - 7 - B4B	
					Packaging 2 - 8 - B4B	
					Packaging 2 - 9 - B4B	
					Packaging 2 - 10 - B4B	
					Packaging 2 - 11 - B4B	
					Packaging 2 - 12 - B4B	
					Packaging 2 - 13 - B4B	
					Packaging 2 - 14 - B4B	
					Packaging 2 - 15 - B4B	
					Packaging 2 - 16 - B4B	
					Packaging 2 - 17 - B4B	
					Packaging 2 - 18 - B4B	
					Packaging 2 - 19 - B4B	
					Packaging 2 - 20 - B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	

155	QC 96	4 pcs	5/3/19	0.00 0.00	Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
					QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
180	Packaging 3-1 - Stock - B4B	4 pcs	5/3/19	0.00 0.00	QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	
					QC 5 - 40	
					Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	

DAS
40
9-89

JUN 21 2019

DAS
28
9-89

				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
190 QC 21 - SA	4 pcs	5/3/19	0.00 0.00	QC 21 - SA - 21	DAS
				QC 21 - SA - 70	JUN 28 2019 70
				QC 21 - SA - 53	9-89

Part Op 100 - (Bandsaw) Cut Blank at 4.625"

Descriptions: 110 - (HAAS CNC Vertical Machine 1-Machine per folio FB214 DWG REV: D FOLIO REV: A 2- deburr and break all sharp edges

120 - (QC2- Inspect parts off machine FAI/FAIB) QC2- Inspect parts off machine FAI/FAIB

130 - (QC8- Inspect parts - second check) QC8- Inspect parts - second check

140 - (Outsource process-Anodize per QSI017 4.1.10.1) Outsource process-Anodize per QSI017 4.1.10.1 Issue P/O to ATG: HB043205 1- Black Anodize as per Dwg 649.5100 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Conformity is required

150 - (Receive & Inspect for Damage & Mat'l Certs) Receive & Inspect for Damage & Mat'l Certs

155 - (QC5- Inspect part completeness to step on W/O QC5- Inspect part completeness to step on W/O

180 - (Identify as per dwg & Stock Location:) Identify as per dwg & Stock Location: ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

190 - (QC21- Final Inspection - Work Order Release) QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M7075T6S1.500X1.500	7075-T6S Sheet 1.5" Thick Plate X 1.5" Wide	1.5400 ft (.385 ea)	100-Bandsaw - 1	<u>5138087</u>

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Bandsaw - 1	M7075T6S1.500X1.500	2	24	0

Part Specifications

Specifications could not be found.

Plex 4/1/19 7:51 AM Dart.lajeunesse.marie

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER POHB043285



Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB043285
PO Date: 4/24/19
Due Date: 5/1/19
**Purchase Order
Revision:**
Revision Date:
Ship-To Contact: Phone:

Via: Ground
Pymt Terms: Net 30

Freight Terms:
Special Comments:

E-MAILED
2019-05-13

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	190723	647.1512	Breakaway Tip (Outsource process-Anodize per QSI017 4.1.10.1) Issue P/O to ATG : 1- Black Anodize as per Dwg 647.1500 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Conformity is required	Firmed	-	5/1/19	10 pcs	0 pcs	10 pcs	\$13.00/pcs	\$130.00
2	190722	647.1511	Lower Deflector (Outsource process-Anodize per QSI017 4.1.10.1) Issue P/O to ATG : Hard Anodize Color Black, Prime as per Dwg 647.1500 Rev. D.	Firmed	-	5/1/19	10 pcs	0 pcs	10 pcs	\$13.45/pcs	\$134.50
	192598			Firmed	-	5/1/19	2 pcs	0 pcs	2 pcs	\$13.45/pcs	\$26.90
Sub Total:							12	0	12		\$161.40
3	190595	647.7812	Center Plate, Upper Issue P/O to ATG : Hard Black Anodize and Prime Dwg 647.7800 Rev. A	Firmed	-	5/1/19	7 pcs	0 pcs	7 pcs	\$11.05/pcs	\$77.35

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Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043285



Items											
Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	192736	649.5214	Bracket Issue P/O to ATG: AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N	Firmed	-	5/1/19	10 pcs	0 pcs	10 pcs	\$11.30/pcs	\$113.00
5	192694	649.5212	Bracket Issue P/O to ATG: AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N	Firmed	-	5/1/19	10 pcs	0 pcs	10 pcs	\$11.30/pcs	\$113.00
6	192700	649.5113	Wiper Deflector Shim - Issue P/O to ATG : - Hard Anodize Black, Type 3, Class 2 as per Dwg. - Prime as per Dwg. Certification of Conformity is required.	Firmed	-	5/1/19	8 pcs	0 pcs	8 pcs	\$8.55/pcs	\$68.40
7	192695	649.5110	Wiper Deflector (Outsource process-Anodize per QSI017 4.1.10.1) Outsource process-Anodize per QSI017 4.1.10.1 Issue P/O to ATG : 1- Black Anodize as per Dwg 649.5100 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Comformity is required	Firmed	-	5/1/19	10 pcs	0 pcs	10 pcs	\$10.85/pcs	\$108.50
Grand Total:											\$771.65

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Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043285



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/13/19 8:34 AM Dart.Guerin.Kimberley



A.T.G. Industries Inc.
760 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 917889

Date: 24-May-19

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Patrick Lussier
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
✓ 10 ea	Part: 649.5110 ✓ Wiper Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 25003 PO: POHB043285 ✓	Rev: D	Line: 7
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: _____ MAY 24 2019 _____ Certified Signature: _____ Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			

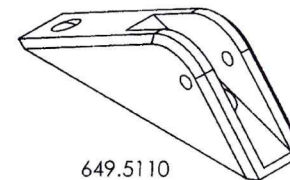
Made in Canada.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

NOTES:

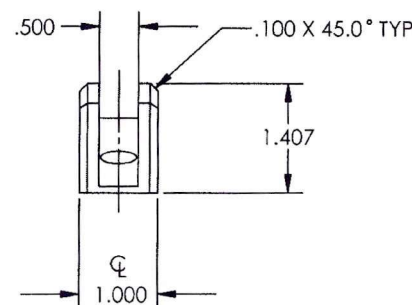
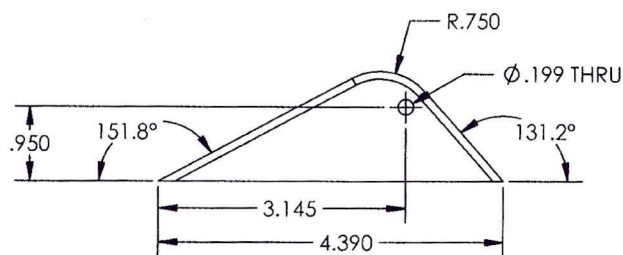
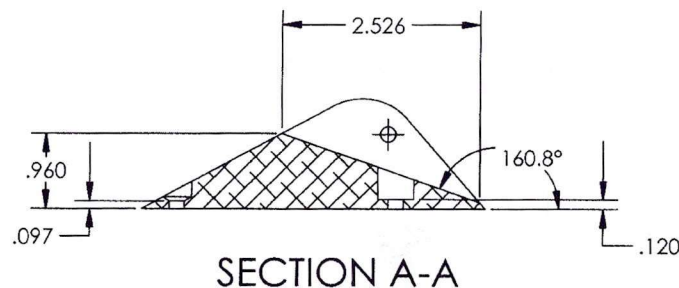
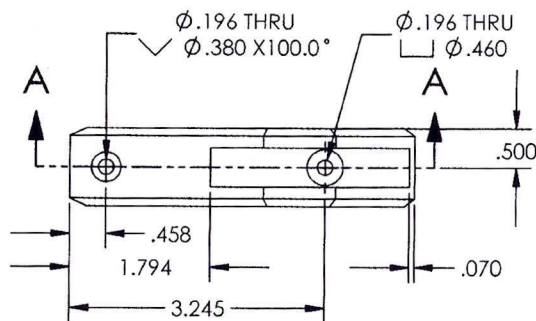
- 1 MATERIAL : ALUMINUM 7075-7651 PER AMS-QQ-A-250/12.
- 2 FINISH: ANODIZE AND PRIME PER MPP-172 SECTIONS 2.1 & 4.3.
- 3 PART CONTROLLED BY CAD MODEL
FILE NAME: 649.5110 WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 12/07/11.
- 4 PART CONTROLLED BY CAD MODEL
FILE NAME: 649.5111 WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 02/06/18.
- 5 PART CONTROLLED BY CAD MODEL
FILE NAME: 649.5112 WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 02/06/18.
- 6 PART CONTROLLED BY CAD MODEL
FILE NAME: 649.5113 WIPER DEFLECTOR SHIM.SLDPRT, LAST MODIFIED 02/06/18.
- 7 DEBURR AND BREAK ALL SHARP EDGES.
- 8 IDENTIFY IAW MPP-120: LASER ETCH P/N REVISION, 12 PT. CENTURY GOTHIC.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
INC	INITIAL RELEASE	10-30-11	P. BRAVO
A	INCORPORATED ECH 03474	04-11-12	P. BRAVO
B	INCORPORATED ECH 03525 05850	08-26-17	P. BRAVO
C	INCORPORATED ECH 03677	10-26-17	P. BRAVO
D	INCORPORATED ECH 03929	02-06-18	P. BRAVO



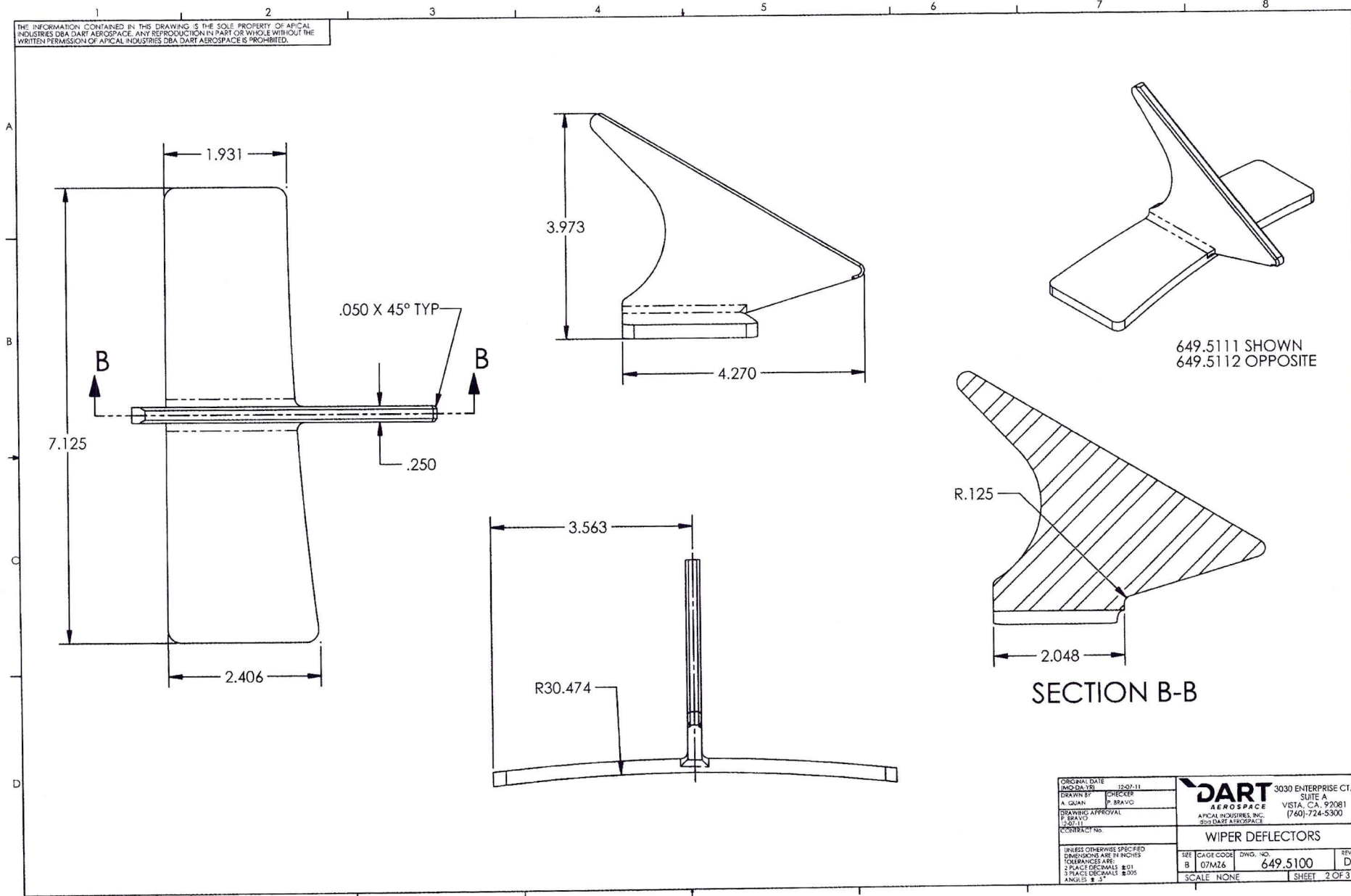
USE STAMP

ASK VISTA



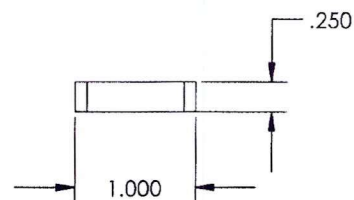
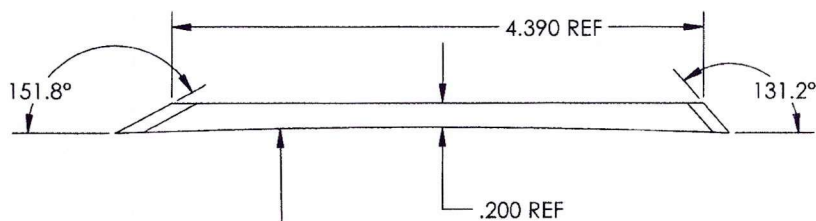
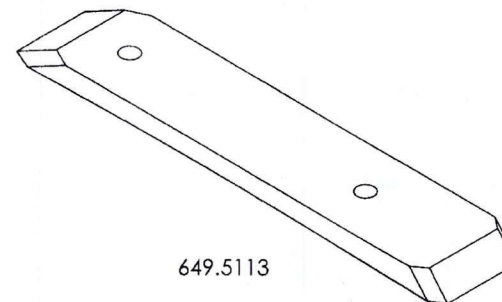
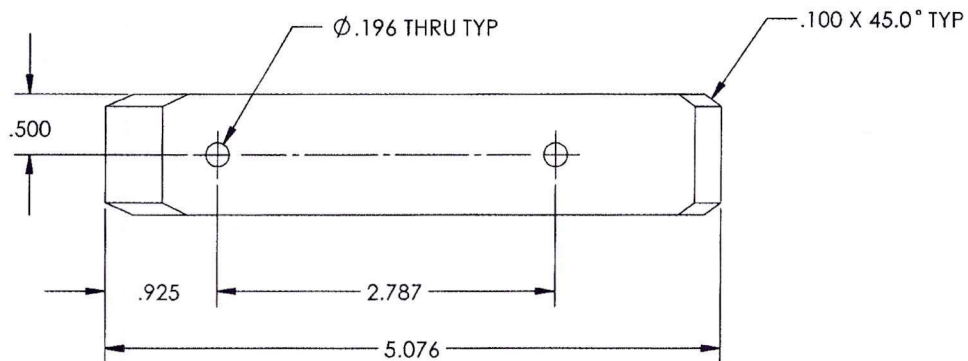
QTY	4	649.5113	WIPER DEFLECTOR SHIM	△	△	△
3	649.5112	RH WIPER DEFLECTOR	△	△	△	△
2	649.5111	LH WIPER DEFLECTOR	△	△	△	△
1	649.5110	WIPER DEFLECTOR	△	△	△	△
FIND #	PART #	DESCRIPTION	MAT'L	SPEC.		
PARTS LIST						
NEXT ASSY (S)		ORIGINAL DATE (DD-MON-YY)	2007-11	DART 3030 ENTERPRISE CT., SUITE A AEROSPACE VISTA, CA 92081 (760) 724-5300 APICAL INDUSTRIES INC. DBA DART AEROSPACE		
649.4700		DRAWN BY	A. QUAN			
		APPROVED BY	P. BRAVO			
		DATE	12/07/11			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°				SCALE	NONE	SHEET 1 OF 3
				DWG. NO.	649.5100	REV. D

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ORIGINAL DATE 12-07-11	12-07-11	DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300
DRAWN BY A. GUAN	CHECKED P. BRAVO	APICAL INDUSTRIES, INC. 3030 DART AEROSPACE		
DRAWING APPROVAL P. BRAVO 12-20-11		WIPER DEFLECTORS		
CONTRACT NO.		SIZE B	CAGE CODE 07M26	DWG. NO. 649.5100
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.1°		SCALE NONE	REV. D	
		SHEET 2 OF 3		

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R64.438

ORIGINAL DATE 12-07-11		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300	
DRAWN BY A. GUAN		CHECKED J. BRAYO	
DRAWING APPROVAL P. BRAYO (12-07-11)		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
CONTRACT NO.		WIPER DEFLECTORS	
SEE B	CAGE CODE 07M26	DWG. NO. 649.5100	REV. D
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		SCALE: NONE SHEET 3 OF 3	